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4                   b)     an optical system [(4)] for imaging the heat radiation emanating from  
5     the measurement spot onto the detector [(1)]  
6                   c)     and a sighting arrangement having a diffractive optical system to  
7     produce a light intensity distribution [(5)] for identifying the position and size of the  
8     measurement spot [(2a)] on the object of measurement by means of visible light [(6)]  
9                   characterised in that  
10                  d)     the sighting arrangement (5) has a diffractive optical system  
11     (holographic element 5b) to produce a light intensity distribution].

1                   2. (Amended) Device as claimed in Claim 1, [characterised in that] wherein  
2     the sighting arrangement [(5)] also has at least one additional refracting and/or reflecting  
3     optical element [(5c, 5'c)].

1                   3. (Amended) Device as claimed in Claim 1, [characterised in that] wherein  
2     the diffractive optical system is formed by a holographic element [(5b)].

1                   4. (Amended) Device as claimed in Claim 1, [characterised by such a design  
2     of the diffractive optical system that] wherein the light intensity distribution on the object of  
3     measurement [(2)] forms an annular marking [(3a; 3b)].

1                   5. (Amended) Device as claimed in Claim 4, [characterised in that] wherein  
2     the sight intensity distribution is formed by at least two circular markings [(3f, 3g, 3b)] which  
3     are arranged concentrically with respect to one another.

1                   6. (Amended) Device as claimed in Claim 4 or 5, [characterised in that]  
2     wherein the light intensity distribution also has a further marking [(3c)] which represents the  
3     centre of the measurement spot.

1                   7. (Amended) Device as claimed in Claim 1, [characterised by such a design  
2     of] wherein the diffractive optical system that the light intensity distribution on the object of  
3     measurement [(2)] forms a cross-shaped marking [(3d, 3e)].

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1                   8. (Amended) Device as claimed in Claim 5, [characterised in that] wherein  
2                   the annular concentric markings in each case identify a region of the measurement spot [(2a)]  
3                   from which a certain percentage of the energy of the received heat radiation originates.

1                   9. (Amended) Device as claimed in Claim 2 [5], [characterised in that]  
2                   wherein optical element [(5'c)] has a focus plane, wherein one circular marking identifies the  
3                   measurement spot [(2a)] lying between the optical element and the focus plane and the other  
4                   marking identifies the measurement spot lying behind the focus plane [-] when viewed from  
5                   the optical element.

1                   10. (Amended) Device as claimed in Claim 1, [characterised in that] wherein  
2                   the sighting arrangement has a light source [(5a)], particularly a laser, for irradiating the  
3                   diffractive optical system [(4)].

1                   11. (Amended) Device as claimed in Claim 1, [characterised in that] wherein  
2                   a beam divider [(4a, 4'a)] which is transparent for the visible light and reflective for the heat  
3                   radiation emanating from the object of measurement is disposed in the beam path of the  
4                   sighting arrangement [(5)].

1                   12. --CANCELLED--

1                   13. (Amended) Device as claimed in Claim 1, [characterised in that] wherein  
2                   the beam divider [(4a)] is disposed between the optical element [(5c)] and the object of  
3                   measurement [(2)].

1                   14. --CANCELLED--

Please enter the following new claim.

1                   --15. (New) A laser sighting device for visibly outlining an energy zone to be  
2                   measured by a radiometer when measuring the temperature of a surface, with the energy zone  
3                   having a periphery, said device comprising:  
4                   a laser for generating a laser beam;

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1 a diffractive element for causing said laser beam to visibly outline the periphery  
2 of said energy zone.

CONCLUSION

In view of the foregoing, Applicant believes all claims now pending in this Application are in condition for allowance. The issuance of a formal Notice of Allowance at an early date is respectfully requested.

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 415-576-0200.

Respectfully submitted,

  
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